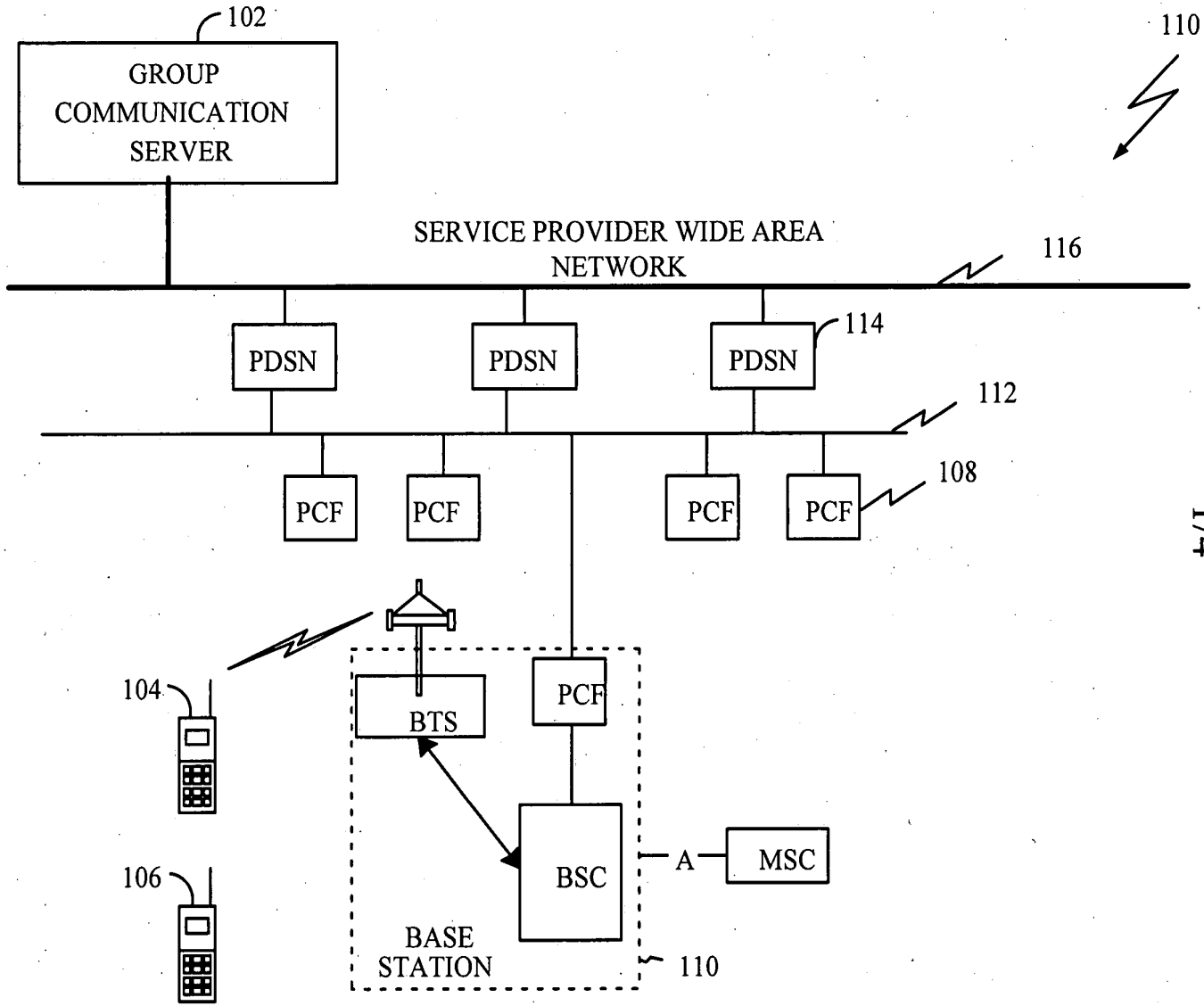
102
GROUP COMMUNICATION SERVER
110
SERVICE PROVIDER WIDE AREA NETWORK
116
PDSN
PDSN
PDSN
114
112
PCF
PCF
PCF
PCF
108
104
106
BTS
PCF
BSC
A
MSC
BASE STATION
110

*FIGURE 1*

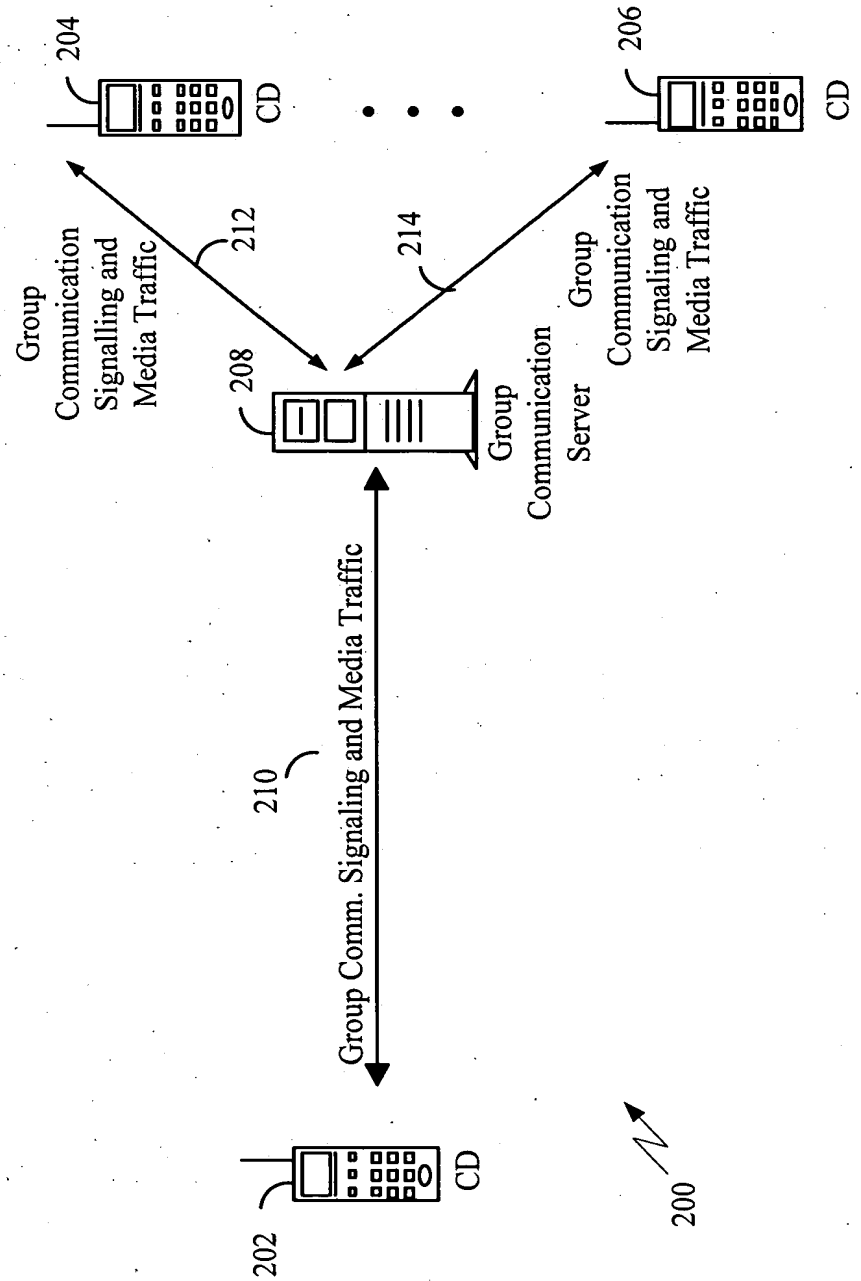
204
CD
206
CD
Group Communication Signalling and Media Traffic
212
214
Group Communication Signaling and Media Traffic
208
Group Communication Server
210
Group Comm. Signaling and Media Traffic
202
CD
200

*FIGURE 2*

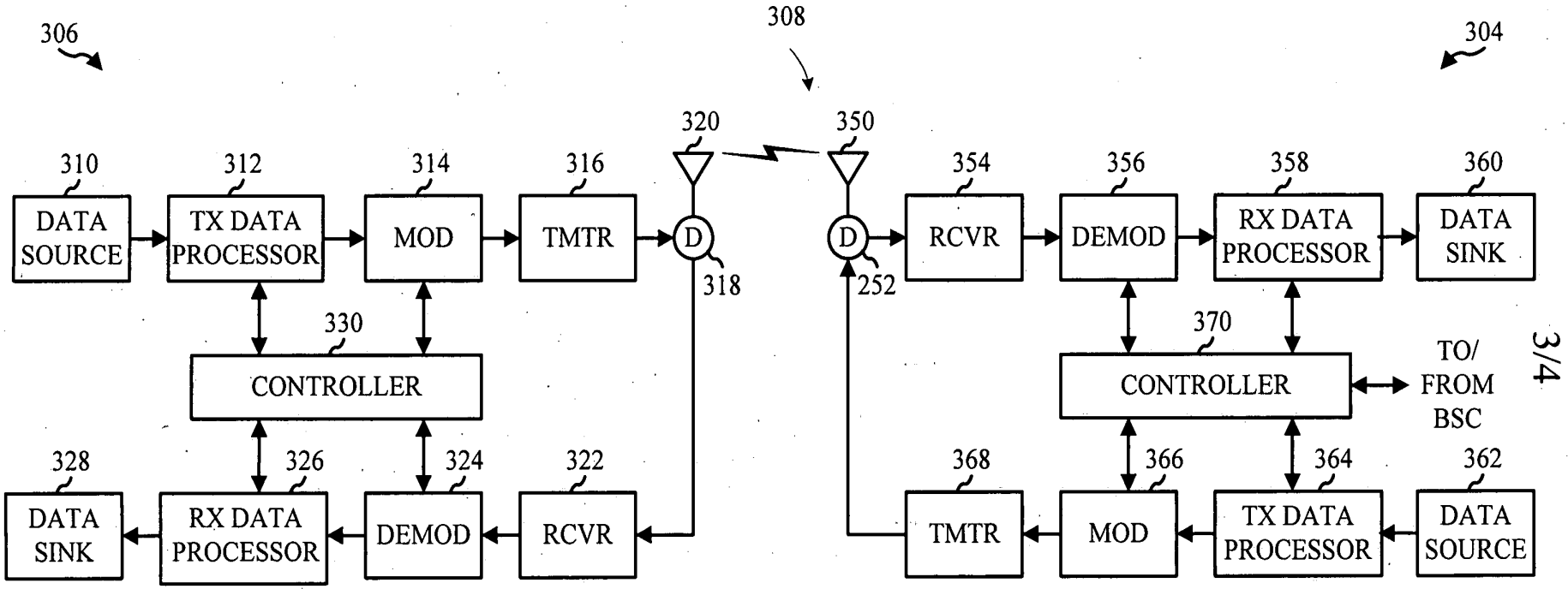
306
308
304
320
350
310
312
314
316
354
356
358
360
DATA SOURCE
TX DATA PROCESSOR
MOD
TMTR
D
D
RCVR
DEMOD
RX DATA PROCESSOR
DATA SINK
318
252
330
370
CONTROLLER
CONTROLLER
TO/ FROM BSC
328
326
324
322
368
366
364
362
DATA SINK
RX DATA PROCESSOR
DEMOD
RCVR
TMTR
MOD
TX DATA PROCESSOR
DATA SOURCE

*FIGURE 3*

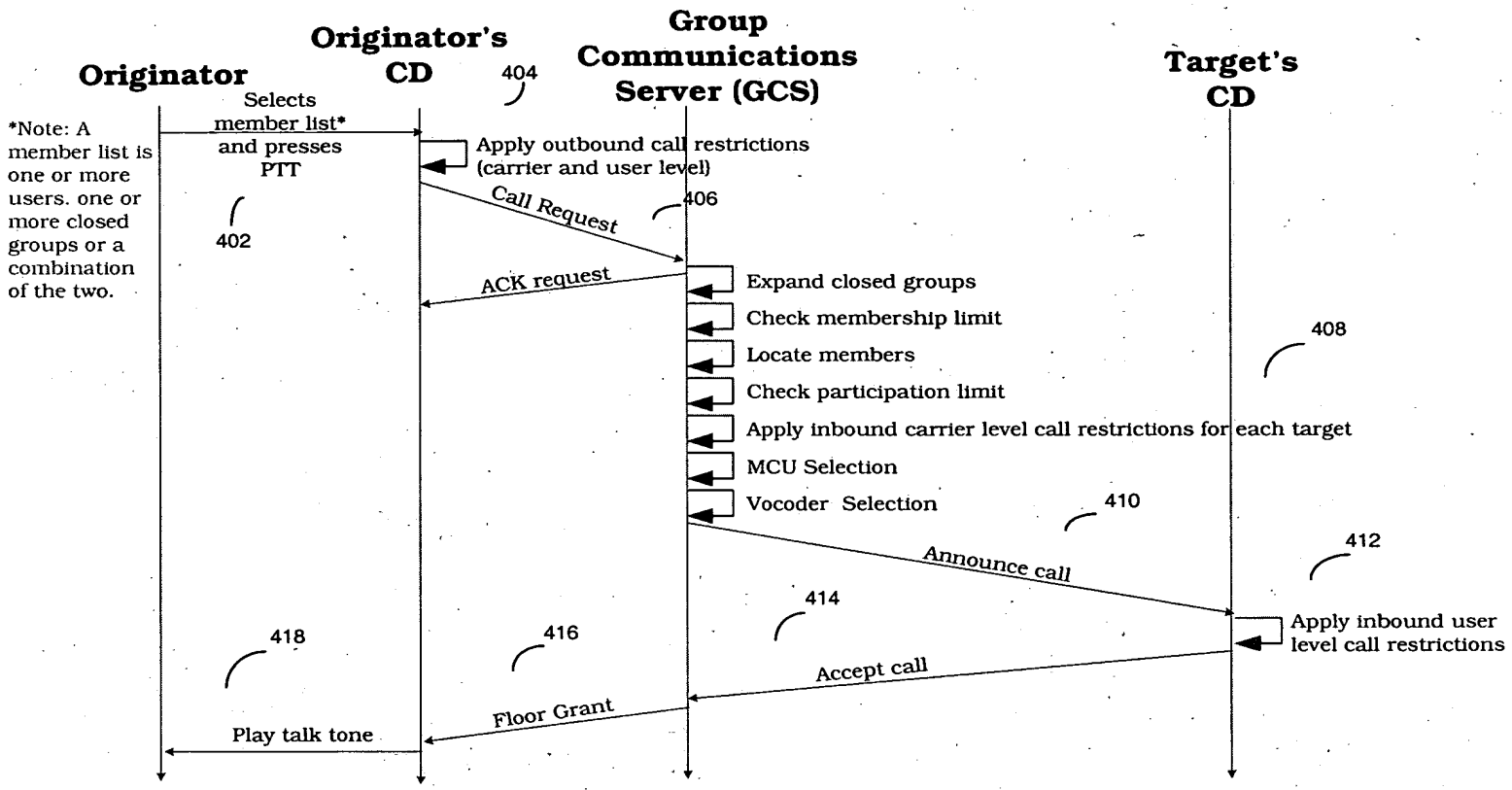
Originator
Originator's CD
Group Communications Server (GCS)
Target's CD
404
*Note: A member list is one or more users. one or more closed groups or a combination of the two.
Selects member list* and presses PTT
402
Apply outbound call restrictions (carrier and user level)
Call Request
406
ACK request
Expand closed groups
Check membership limit
Locate members
Check participation limit
Apply inbound carrier level call restrictions for each target
MCU Selection
Vocoder Selection
408
410
Announce call
412
414
Apply inbound user level call restrictions
418
416
Accept call
Floor Grant
Play talk tone

FIGURE 4